

19981219.qrp v01_n310.qrs.981219

Date: Sat, 19 Dec 1998 19:03:13 EST

From: qrp-l@Lehigh.EDU

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Subject: QRP-L digest 1310

QRP-L Digest 1310

Topics covered in this issue include:

- 1) [27562] Contest surprize! /cross Band QS0ing/ FREE O-Scope! Fox
by Ed Loranger <we6w@qsl.net>
- 2) [27563] keyer chip
by crc <crc@io.com>
- 3) [27564] M-8 Flare Alert 12-18
by Paul Harden <pharden@aoc.nrao.edu>
- 4) [27565] future ham needs advice
by Bigbob97@aol.com
- 5) [27566] Re: MFJ MorseTutor...??
by Peter Chow <pchow@cisco.com>
- 6) [27567] Re: ISOTRON ANTENNAS
by Joe Everhart <n2cx@voicenet.com>
- 7) [27568] RE: Dynamic Range ramblings
by Denton Bramwell W7DB <Denton@Bramwell.Org>
- 8) [27569] Re: MFJ MorseTutor...??
by "T.J. \"SKIP\" Arey N2EI" <tjarey@home.com>
- 9) [27570] Address change/FCC
by N10DL@aol.com
- 10) [27571] Re: Dynamic Range ramblings
by n5inz@juno.com (John M Andrews)
- 11) [27572] RE: Interested in reduction drives?
by "Roger A. McCarty" <rmccarty@earthlink.net>
- 12) [27573] New Call
by Joe Smith <joey@cooldude.com>
- 13) [27574] TS520 Qrp?
by Joe Smith <joey@cooldude.com>
- 14) [27575] refurbishing tower help
by wj5o@juno.com (William H. Hays)
- 15) [27576] Re: Who has some old 73's magazine
by Henry Freedenberg <henryf@quartz.gly.fsu.edu>
- 16) [27577] W7Z0I's homepage
by "Dennis Payton" <dpayton@fwi.com>
- 17) [27578] Re: fox log 12/16 N7CQR
by we6w@juno.com (Ed Loranger)
- 18) [27579] For Eggbeater antenna plans look hr
by Tom McCuen <tjmc@erols.com>
- 19) [27580] Jersey Fireball 40 News

- by "George Heron" <gheron@idt.net>
- 20) [27581] Elmer205: Lab 981218 and rollcall [long]
by Chuck Adams <adams@ticnet.com>
- 21) [27582] Re: ISOTRON ANTENNAS
by W7LS <w7ls@blarg.net>
- 22) [27583] Re: TS520
by Fran Flynn <fflynn@together.net>
- 23) [27584] Balcony antennas, re Bilal
by "rohre" <rohre@arlut.utexas.edu>
- 24) [27585] Re: Address change/FCC
by Shepherd@aol.com
- 25) [27586] Isotron 20m bicycle mobile?
by PUNISHER3@aol.com
- 26) [27587] Re: Isotron 20m bicycle mobile?
by W7LS <w7ls@blarg.net>
- 27) [27588] A HAM CHRISTMAS
by Ab7wy@aol.com
- 28) [27589] RE: Balcony antennas
by Sam Billingsley <SBillingsley@usaninc.com>
- 29) [27590] Pixie2 Experiments tonight.
by we6w@juno.com (Ed Loranger)
- 30) [27591] Archives?
by "Roger A. McCarty" <rmccarty@earthlink.net>
- 31) [27592] Re: Who has some old 73's magazine
by DYARNES@aol.com
- 32) [27593] Re: TS520
by "dor" <elbc@pivot.net>
- 33) [27594] Re: Who has some old 73's magazine
by "Harry T. Hurst, WA3PTG" <hhurst@delaware.infi.net>
- 34) [27595] Re: Archives?
by Kelly Ellison {WB0WQS} <kelman@dialnet.net>
- 35) [27596] Re: Who has some old 73's magazine
by Bruce Muscolino <w6toy@erols.com>
- 36) [27597] MFJ 9406
by mikemo@ibm.net
- 37) [27598] 2N4427 SPICE Model needed
by David Shalita <af389@lafn.org>
- 38) [27599] Elmer 205-WinSpice3 - Plot Immediately
by David Shalita <af389@lafn.org>
- 39) [27600] ELMER 205 - Spice Verison Differences
by Sam Billingsley <SBillingsley@usaninc.com>
- 40) [27601] U310
by "Brad Hernlem" <alihernlem@hotmail.com>
- 41) [27602] Re: A HAM CHRISTMAS
by Russ Hines <radioruss@fuse.net>
- 42) [27603] RE: A Ham Christmas...
by n5inz@juno.com (John M Andrews)
- 43) [27604] Reduction drives available; Last repost

by "Roger A. McCarty" <rmccarty@earthlink.net>
44) [27605] Re: TS520
by Fran Flynn <fflynn@together.net>
45) [27606] Re: U310
by "Radman" <radman@best.com>
46) [27607] RE: Archives?; more assistance needed
by "Roger A. McCarty" <rmccarty@earthlink.net>
47) [27608] Re: For Eggbeater antenna plans look hr
by Michael Neverdosky <MichaelN@cycat.com>
48) [27609] Re: Who has some old 73's magazine
by Robert Parks <rob3ert@vegas.infi.net>
49) [27610] Re: U310
by gsurrency@juno.com (Gary L Surrency)
50) [27611] Jumpering of Lambda Model LH125AFM regulated supply
by "Karl Heimbach" <heimbach@concentric.net>
51) [27612] Re: U310
by Paul Harden <pharden@aoc.nrao.edu>
52) [27613] FDIM 99 Announcement
by "Kenneth W. Evans" <w4du@bellsouth.net>
53) [27614] Re: U310
by "Brad Hernlem" <alihernlem@hotmail.com>
54) [27615] Jersey Fireball 40
by "T.J. \"SKIP\" Arey N2EI" <tjarey@home.com>
55) [27616] Atlanticon 99/Holiday Inn Reservations GOING FAST!!!
by HWRM1SS@aol.com
56) [27617] FOX:We've come a long way!
by Niels Jensen Kristjansson <nkristja@cadvision.com>
57) [27618] Re: Who has some old 73's magazine
by Lee Bahr <bahr521@earthlink.net>
58) [27619] Re: MFJ 9406
by "Steve Yates, AA5TB" <aa5tb@swbell.net>
59) [27620] Ground Planes; 5/8th wave Verticals,etc.
by Roy Lincoln <wa4dou@usa.net>
60) [27621] Re: Atlanticon 99/Holiday Inn Reservations GOING FAST!!!
by Richard Arland <k7sz@epix.net>
61) [27622] rope/wire ant & sstv
by hamjoel@juno.com
62) [27623] Reduction Drives; Last Day
by "Roger A. McCarty" <rmccarty@earthlink.net>
63) [27624] Re: MFJ 9406/Audio Quality
by "Kevin F. Glynn" <kfglynn@prodigy.net>
64) [27625] Not QRP
by Ron Stark <ku7y@dri.edu>
65) [27626] Re: TS520
by Fran Flynn <fflynn@together.net>

Date: Sat, 19 Dec 1998 00:08:27 +0000
From: Ed Loranger <we6w@qsl.net>
To: qrp-1@lehigh.edu
Subject: [27562] Contest surprize! /cross Band QSOing/ FREE O-Scope! Fox
Message-ID: <367AEE7B.5922@qsl.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Boy these QRP magazines are so nice. And so full of information
it took until last night to get to the back of the Spring
QRP Quarterly where I learned I made the top 10 in the
Spring QSO Party!

Boy was I surprized.

To make #8 on the list I noticed that of all the
entries I had the most hours of operating. (23 hrs.)

What? Am I insane or just patient :)

At my qso rate I have to stay on a lot longer. Sometimes
getting into little mini-rag-chews.

That's what is so different about qrp contesting -- when
you work a QSO you get a person, not just a station.

I need another 'Qrp Addicts Anonymous' meeting -- now!

Oh, one more thing before I shut down for the holidays on
qsl.net and begin answering my we6w@juno.com email only...

I've spent most of this week trying to operate TX on 7040
and RX on 7110.

CQ QSX 7110 de WE6W/QRPP QSX 7110 AR

Is that a good technique?

Also, it sure would be great to have a really fine RX and
start focusing on Class 'E' or whatever efficient transmitters.

I would love to also have a Cross-band contest some day
as well!

One other item. I have no need for a second O-scope.
It is a B&K 1460, a 10 Mhz model with a very weak CRT but usable

display. I will include a 10:1 scope probe that works but may not be top of the line :) With a good warm-up it has been getting brighter so who knows why it is weak? It has no other problems but I can't guarantee it is accurate. Great for viewing waveforms and relative measurements for sure. I would keep this unit for other work, but I'm sure it will see more use this way.

You pick up or Pay shipping.

Anyone who can definitely use this 10 MHz scope should send me email ONLY to we6w@juno.com

I will not be answering from this qsl.net address until 1/4/1999.

(Note y2k compliant date :) <guess what I've been working on....>

Some like 19990104 for math comparisons....

This puppy is mildly hard on the eyes, but usable. It is not junk. It has a photocopy owners manual thanks to Bruce/VE5RC earlier this year. (You da man, hambly!)

There is a link to "ABC's of Oscilloscopes" on my web page.

I will collect email and have a drawing sometime next week so digesters get a shot at it.

Please, this is only for those who need and will use this 10 MHz scope.

Maybe it'll help catch the fox?

72/Ed we6w (Headin' home in a bit...)

--

72, Ed WE6W, A-1 OP; <http://www.qsl.net/we6w> Santa Rosa, CA
QRP-Z#106 QRP-L#1068 AR#112 NC#2227 ARCI#9397 QAA#006

Date: Fri, 18 Dec 1998 18:08:24 -0600
From: crc <crc@io.com>
To: QRPL <QRP-L@Lehigh.EDU>
Subject: [27563] keyer chip
Message-ID: <367AEE78.EBB8514B@io.com>
MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

I accidentally deleted the note on here that mentioned a new keyer chip for \$18 that was a drop in for a tick but included a connection for a speed control .Could whoever posted that please e-mail me the info again .

Thanks Charlie Crouchet WA5KRF crc@io.com

Date: Fri, 18 Dec 1998 17:18:54 -0700 (MST)
From: Paul Harden <pharden@aoc.nrao.edu>
To: qrp-l@lehigh.edu
Cc: GQRP-L List <qgrp-l@blacksheep.org>
Subject: [27564] M-8 Flare Alert 12-18
Message-ID: <Pine.SOL.3.91.981218164757.23338A-100000@zia>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

The sun has been very quiet lately, but produced an unexpected M-8 flare today on the east limb of the sun. This means the region that produced the flare is just coming into view, shows signs of magnetic complexity, and thus capable of further major flare activity. It will be facing us for about two more weeks.

A MINOR TO MAJOR GEOMAGNETIC STORM may result from this flare as the shock wave hits the earth sometime between mid-day Monday to early tuesday (US time zones), depending on the speed of the shock wave. It will be detected and measured late sunday as the shock wave passes the SOHO satellite, and the severity and shock wave arrival time will may be updated. The LASCO satellite detected a partial halo CME from this flare, suggesting that plenty of mass got hurled towards us. When the shock wave hits us, the faster it is moving and the more dense the particles, the more severe the geomagnetic storm will be.

THE GOOD NEWS ... is the solar flux is above 150, the A-index is very low ... so the high bands (15-10M) will be hot this weekend, and below 10MHz will be nice and quiet. A good weekend for operating!!!

72, Paul NA5N
National Radio Astronomy Observatory

Here's a few details from today's Solar/Geomagnetic Report for those

interested:

- > JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
- > SDF NUMBER 352 ISSUED AT 2200Z ON 18 DEC 1998

- > IA. SOLAR ACTIVITY WAS HIGH.
- > REGION 8415 (N19E61) PRODUCED A M8/2N EVENT AT 18/1722Z WITH AN
- > ASSOCIATED TYPE II SWEEP.

A type II radio sweep is caused by the rising gas cloud from the disturbance passing through the sun's magnetic field lines with such force that radio emissions are produced. It is one of the things looked for to indicate a fairly energetic event.

If you were on the air at this time (18 DEC 1722 to about 1800 UTC) on 20M or above, you may have heard a 20 minute period or so of sudden noisy conditions, and the sweeps themselves, which sounds like ignition noise. This was the solar storm itself.

- > IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 17/2100Z TO 18/2100Z:
- > THE GEOMAGNETIC FIELD WAS QUIET. A CME WAS OBSERVED FROM SOHO LASCO
- > IMAGERY AT 18/1834Z IN ASSOCIATION WITH THE M8 X-RAY EVENT IN REGION
- > 8415 EARLIER TODAY. LASCO AND EIT REPORTED A PARTIAL HALO.

The coronal mass ejection (CME) just means that material/mass was ejected from the sun during this event, and headed out into space. If it collides with our magnetic field, it will trigger a geomagnetic storm.

- > IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS
- > EXPECTED TO BE QUIET, BECOMING QUIET TO UNSETTLED DURING THE THREE
- > DAY PERIOD. NO SIGNIFICANT GEOMAGNETIC EFFECTS ARE EXPECTED FROM
- > THE X-RAY EVENT AT 18/1722Z UNTIL THE END OF THE PERIOD.

Meaning after Sunday ... although there is a chance of active conditions in the higher latitudes Sunday due to the energetic electrons from the flare itself striking the earth, getting "sucked" into our magnetic field at the poles, where they lounge around and cause high absorption to HF radio. Sorry AL7FS!

- > IV. PENTICTON 10.7 CM FLUX
- > OBSERVED 18 DEC 155 <----- high enough to support 10M
- > PREDICTED 19 DEC-21 DEC 150/145/140 propagation
- > 90 DAY MEAN 18 DEC 133

- > V. GEOMAGNETIC A INDICES
- > OBSERVED AFR/AP 17 DEC 000/002 <---- almost non-existent
- > ESTIMATED AFR/AP 18 DEC 002/003

> PREDICTED AFR/AP 19 DEC-21 DEC 005/009-008/009-008/009

Date: Fri, 18 Dec 1998 19:35:15 EST
From: Bigbob97@aol.com
To: QRP-L@Lehigh.edu
Subject: [27565] future ham needs advice
Message-ID: <201b0db0.367af4c3@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi friends,
There is a bright young man I know who is pretty good at web sites despite the fact that he is still in grade school. He is interested in becoming a ham op. He lives in Westminster MD which I believe is near Baltimore. I promised him that I would try to get people familiar with clubs in that area to email him. So, if you have any info about a ham club where Kenny might meet some Elmers to help him along, please email him. I will send him some ARRL books, but I live in Jersey City which is just too far away for an eyeball.

Please contact Kenny at : Kenny_38@yahoo.com

Thank you for your help! 73,
Bob WB2DHK

Date: Fri, 18 Dec 1998 16:39:17 -0800 (PST)
From: Peter Chow <pchow@cisco.com>
To: qrp-l@LEHIGH.EDU
Cc: b2bn@hotmail.com
Subject: [27566] Re: MFJ MorseTutor...??
Message-ID: <199812190039.QAA28023@pchow-ss20.cisco.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Try: www.murrah.com/sm for Supermorse from the author himself.

Actually, there is a great link to a lot of morse code software at:

www.ac6v.com/pagez.html

72, Peter/N6YD

>Ive got Ham University. Not so great. Could someone point me to where I
>can get supermorse? Thanks.

Date: Fri, 18 Dec 1998 20:22:40 -0500
From: Joe Everhart <n2cx@voicenet.com>
To: w2bj@juno.com
Cc: qrp-1@Lehigh.EDU
Subject: [27567] Re: ISOTRON ANTENNAS
Message-ID: <199812190122.UAA46410@nss4.cc.Lehigh.EDU>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hi Barry,

You inquired about the Isotron Antennas for QRP use. I tired a couple of them several years back with my HW-8. The results were less than spectacular. On 40 I had trouble working past a coouple hundred miles and on 20 I made Q's only with extreme difficulty.

Others know have used them successfully with 100 watts or so when antenna restrictions forced a small antenna.

I've gotta admit that the Bilal company was very helpful in providing setup info to tune up the antenna.

My guess is that the efficiency is so low that running 100 watts to one of them is about equivalent to running QRP with a full-sized antenna. It's the old game of if it saounds too good to be true it probably is...

You might try the AEA or MFJ small loops for you trmporary use. They are good for quick installations and offer at least respectable efficiency. They are kinda pricey tho.

72/73,

Joe E., N2CX

from South Jersey y'all!

Date: Fri, 18 Dec 1998 18:44:17 -0700
From: Denton Bramwell W7DB <Denton@Bramwell.Org>
To: "'qrp-1@lehigh.edu'" <qrp-1@lehigh.edu>
Subject: [27568] RE: Dynamic Range ramblings
Message-ID: <5103124387F8D11199DD00A0C925E4B906292D@SQLMAILSERVER>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"

Laura,

A question about your comments.....

> [snip in superhet receivers are
> optimized for opposite sideband rejection, with audio
> quality coming in a distant second [snip]

[snip] Do you have a reference
to this fact or is it common knowledge?[snip]

The lady speaks the truth. One of the fundamental problems is that all frequencies do not propagate through the filter in equal times. This is especially true near the edges of the filter. Getting an acceptable balance between time delay and skirt steepness and depth is a fairly subtle art. Hayward calls that particularly fine audio quality of a well done DC receiver "presence". I understand that similar quality is available in phasing receivers.

Date: Fri, 18 Dec 1998 20:58:18 -0500
From: "T.J. \"SKIP\" Arey N2EI" <tjarey@home.com>
To: "qrp-1@Lehigh.EDU" <qrp-1@Lehigh.EDU>
Subject: [27569] Re: MFJ MorseTutor...??
Message-ID: <367B083A.E9491E80@home.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

I use mine everyday. I listen while I'm driving too and from work to work on my "in my head" speed.

--

+++++

T.J. "SKIP" AREY N2EI e-mail tjarey@home.com

Website <http://members.home.net/tjarey>

Snail Mail: PO Box 236, Beverly, NJ 08010

Specialization is for insects! LAZARUS LONG

Date: Fri, 18 Dec 1998 21:05:01 EST
From: N10DL@aol.com
To: qrp-1@Lehigh.EDU
Subject: [27570] Address change/FCC
Message-ID: <e652d51a.367b09cd@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit
Content-Transfer-Encoding: 7bit

Can anyone tell me how to go about letting the FCC know that I have moved?

Thanks....

Aron Brown

N10DL

Bedford, NH

FISTS#4110

Date: Fri, 18 Dec 1998 20:16:37 -0600
From: n5inz@juno.com (John M Andrews)
To: Denton@Bramwell.Org
Cc: qrp-1@lehigh.edu
Subject: [27571] Re: Dynamic Range ramblings
Message-ID: <19981218.201637.3510.2.N5INZ@juno.com>

>Hayward calls that particularly fine audio quality of a well done DC
>receiver "presence". I understand that similar quality is available
>in
>phasing receivers.

Also for transmission of audio. Nothing in the world sounded like
a 'phone transmitter with a B&W phase system.

Within the current state of the art, such a system has never been
more viable, in my opinion.

72, John-N5INZ

>

You don't need to buy Internet access to use free Internet e-mail.
Get completely free e-mail from Juno at <http://www.juno.com/getjuno.html>
or call Juno at (800) 654-JUNO [654-5866]

Date: Fri, 18 Dec 1998 18:20:10 -0800
From: "Roger A. McCarty" <rmccarty@earthlink.net>
To: <mikemo@ibm.net>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [27572] RE: Interested in reduction drives?
Message-ID: <001601be2af6\$1a868ee0\$c705b2d1@rmccarty.earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Thanks Mike, for the prompt.

These are 8 -1 reductions drives with a 1/4" shaft. Rotation is 180 degrees and the dial is calibrated from 0 to 100. For those that missed the first post I have an opportunity to get these at what seems to be a reasonable price. I have seen them in local shops at \$14.00 and \$18.00. The smaller one is 1.5" at \$7.00 and the larger is 2.0" at \$8.50. I need to commit to at least 40 units before the deal can be made. You can see the drive at; <http://www.accurate-electronics.com/knob/drive.jpg>

72!

Roger KD6CC

> -----Original Message-----

> From: Michael Maiorana [mailto:mikemo@ibm.net]

> Sent: Friday, December 18, 1998 9:25 AM

> To: rmccarty@earthlink.net

> Subject: Re: Interested in reduction drives?

>

>

> Roger,

> I'd be interested, depending on the specs. Do you happen to know the

> reduction ratio and the shaft size? If you do you may want to post it.

> Thanks for the generous offer to organize a group buy. It's hard work

> ;-)
> --
> 72 de ku4qo
> Mike Maiorana
> Palm Harbor, FL
>

Date: Fri, 18 Dec 1998 20:32:46 -0600 (CST)
From: Joe Smith <joe@cooldude.com>
To: qrp-1@lehigh.edu
Subject: [27573] New Call
Message-ID: <Pine.LNX.4.02.9812182032250.8618-100000@buster.hworx.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

>From: Wayne Alexander <walexan@ipa.net>
>To: qrp-1@lehigh.edu
>Subject: [27506] NEW CALL
>
>Just wanted to let you guys know that I have a new Call. N0EA Just so
>the Foxii will know. Getting ready for the fox with a new set of paddles.
>They are hand made and very nice.

Like your new call Wayne, nice for CW and Contesting!! :) I'm tempted to
go for a 1x2, but I guess I'll stick with the vanity I was able to get.
It's pretty neat to rarely have to tell anyone my name, especially seems
to be the case in ssb contests!

There's usually no name exchange in contests anyway, but that practice is
transcended with my callsign! Besides, it's just one dit longer than a
1x2, though 1x2's (and 2x1's) vary quite abit depending on the letters.

Guess I better get in and finish my Norcal paddles....

73, happy fox hunting....

w0joe

AOL is to the Internet what CB is to communications!!

SPAM is for Lusers who can't get business any other way!!

Date: Fri, 18 Dec 1998 20:33:23 -0600 (CST)
From: Joe Smith <joe@cooldude.com>
To: qrp-1@lehigh.edu
Subject: [27574] TS520 Qrp?
Message-ID: <Pine.LNX.4.02.9812182033010.8618-100000@buster.hworx.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

>Date: Thu, 17 Dec 1998 16:36:02 -0800
>From: Arthur Gary Silvers <ags@ieee.org>
>Subject: [27508] RE: TS-520 for QRP?
>
>I used to own a TS-520 and liked it very much. It uses a pair of
>parallel 6146Bs in the final which would probably need to be bypassed to
>get down to qrp levels of output. The receiver is sensitive but I added
>an active variable state hybrid band pass/reject filter in the audio
>stage for CW work. Not exactly ideal for qrp but a nice radio if it is
>cheap enough. Really sorry I let it go.

I've got a TS520 and love that ol' radio. It will indeed go down to QRP level easy enough with the carrier level control. They used to have a "tube" substitute for one of the 6146B tubes to allow novices to tune them up to max INPUT and maintain the maximum legal INPUT power they could run. (in the old days of INPUT power restrictions versus OUTPUT power restrictions)

But you can easily run the power output down with the carrier control. The aforementioned mod allowed maximum efficiency at the lower INPUT level versus using the carrier control to throttle down the power.

Only thing that I don't like about the TS520 is the lack of 160 meters. And it does have a 12 volt power supply built-in! :)

73
w0joe

Date: Fri, 18 Dec 1998 20:31:37 cst
From: wj5o@juno.com (William H. Hays)
To: QRP-L@LEHIGH.EDU
Subject: [27575] refurbishing tower help
Message-ID: <19981218.203139.-498785.2.WJ50@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi All,
Yep, not quite QRP but it's difficult to operate with the tower down.
I'm asking here because I certainly value the collective knowlege of the list.

I have an HBX30 tower that the upper two sections have rusty portions.
(The side that faced the "salty" breeze from the Gulf of Mexico)

Is there a chemical that I can apply to remove (neutralize) the rust?

Is a rotary wire brush a good way to remove the rust?

After the areas are cleaned , is it "cold galvanize" or "zink chromate" primer
or something other?

73 Bill WJ50

You don't need to buy Internet access to use free Internet e-mail.
Get completely free e-mail from Juno at <http://www.juno.com/getjuno.html>
or call Juno at (800) 654-JUNO [654-5866]

Date: Fri, 18 Dec 1998 22:45:39 -0500
From: Henry Freedenberg <henryf@quartz.gly.fsu.edu>
To: mulder@server4.nfra.nl
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [27576] Re: Who has some old 73's magazine
Message-ID: <367B2162.751B1DA8@quartz.gly.fsu.edu>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

More importantly, who has some new 73's?

I haven't seen a new issue since August.

Is Wayne still alive? Was he shot by an angry subscriber?
Bioelectrified when somebody turned up the juice?

Inquiring minds want to know.

Henry

Date: Fri, 18 Dec 1998 21:54:39 -0500
From: "Dennis Payton" <dpayton@fwi.com>
To: <qrp-1@Lehigh.EDU>
Subject: [27577] W7ZOI's homepage
Message-ID: <000301be2afa\$ed364520\$adb054d1@Pdpayton>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Maybe there are some who don't know that Wes Hayward has a website where you can visit his shack and pick up a few "Technical Tidbits". I really appreciate being able to look over the station of the legend so many of us have learned so much from and see how he does it.

It's at: <http://www.teleport.com/~w7zoi/>

Denny Payton, N9JXY
Auburn, IN

Date: Fri, 18 Dec 1998 21:56:09 EST
From: we6w@juno.com (Ed Loranger)
To: talljazz@teleport.com
Cc: qrp-1@Lehigh.EDU
Subject: [27578] Re: fox log 12/16 N7CQR
Message-ID: <19981218.184411.4903.3.we6w@juno.com>

Hmmm, that's interesting 3 of the first 5 Qso's are
Team Vibro-Fox Finders!!! Wahoo!

We went 4/5.

Got RF?

--

72, Ed WE6W QRP-Z#106 <http://www.qsl.net/we6w>
Enjoying Ham Radio every day! Santa Rosa, CA.

On Fri, 18 Dec 1998 00:43:15 -0800 talljazz@teleport.com (Dan Presley)
writes:

<edits>

>02:01 K2VCO 559 Vic CA # 725 <Vibro-Fox Finder ON Top!>
<numero uno, the big cheese, head honcho! Good job Vic!>
>02:03 KI0U? 559 Jim MO # 790?
>02:04 VE5RC 229 Bruce SK #886
>02:06 KU7Y 559 Ron NV #17 <Vibro-Fox Finder #2!>
>02:07 WE6W 599 Ed CA #1068 <Vibro-Fox Finder #3!>

72, Ed WE6W QRP-Z#106 <http://www.qsl.net/we6w>
Enjoying Ham Radio every day! Santa Rosa, CA.

You don't need to buy Internet access to use free Internet e-mail.
Get completely free e-mail from Juno at <http://www.juno.com/getjuno.html>
or call Juno at (800) 654-JUNO [654-5866]

Date: Fri, 18 Dec 1998 22:07:33 -0500
From: Tom McCuen <tjmc@erols.com>
To: QRP-L <qrp-l@lehigh.edu>
Subject: [27579] For Eggbeater antenna plans look hr
Message-ID: <367B1874.2DA8A4F2@erols.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

For the person looking re eggbeater antenna;

<http://aardvark.apana.org.au/~brucej/eb.html>

The plans are easy to do.

72

Tom aa2vk

(i would have sent it directly , but my email trashed the folder right after)

Date: Fri, 18 Dec 1998 21:40:12 -0500
From: "George Heron" <gheron@idt.net>
To: "QRP-L" <qrp-l@Lehigh.EDU>
Cc: "NJQRP" <NJQRP@njqrp.org>
Subject: [27580] Jersey Fireball 40 News
Message-ID: <006101be2afd\$3ee48a10\$993984a9@herong.dialogic.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi all,

All "Jersey Fireball 40" QRPP Transmitter orders received prior to Monday were shipped early this week and people should be receiving them right about now. We sure hope you enjoy building your FB40 and getting it on the air! Please let us know how it works out for you.

And as for the orders still coming in ... we've quickly exhausted the parts for the first run of 100 Fireball 40 kits and ALREADY have another set of parts coming from the suppliers! We should have these kitted over the holidays and to you in the mail by the end of this month. The response to this kit has been phenomenal and much more/quicker response than we anticipated. Thank you all!

Now, if you haven't yet placed your order for an FB40 please feel free to do so ... you'll be pleasantly surprised when you receive the "rev B" circuit board. We made some improvements to make it even easier to construct.

Thanks to Doug Hendricks for the nice review of the "tech manual" for the Fireball 40! We think you all will be quite happy with the information presented in the document.

To let a little cat out of the bag, we're looking to put together a FB40 sprint after the holidays leading up to the Atlanticon QRP conference, with some interesting operating twists and goals. (Think "miles per watt".) Should be great fun and we've got some neat prizes lined up. More later ...

Now, for the little SNAFU (every project has at least one snafu, right?) In

our kitting excitement, we forgot to place a part into the bag ... just one little part: the LM78L05Z voltage regulator! The little bag of T0-92 parts just never made it to the kit assembly line table. Ohhhh noooooo! Well, this little device will be coming to you early next week in a standard envelope with an apology for the omission. Please hang in there!

Again, thanks so much for all your orders. And if you haven't yet sent in an order for the FB40, please do so at your *earliest* convenience because these little kits are going like ... well, like fireballs :-). And when the kit availability is made known in QRPP, QQ, SPRAT, CQ, WorldRadio, and a few other widely distributed ham publications, we expect the orders to sky rocket (or at least we hope they will) and we wanted everyone on QRP-L to have a shot at getting theirs before the fire storm hits.

Stay tuned for some detailed photos and step-by-step Fireball 40 construction and operating pictorials coming soon on our Jersey QRP website. We think all owners will be pleased to see additional detail on putting all the optional/accessory components on the board.

For more information on the "Jersey Fireball 40" QRPP transmitter, please visit our website at: <http://www.njqrp.org/fireball40/>

72,

--George Heron, N2APB
n2apb@amsat.org in Sparta, NJ
<http://www.njqrp.org> <-- Home of the NJ-QRP Club

Date: Fri, 18 Dec 98 21:24:28 -0500
From: Chuck Adams <adams@ticnet.com>
To: qrp <qrp-l@lehigh.edu>
Subject: [27581] Elmer205: Lab 981218 and rollcall [long]
Message-ID: <199812190320.WAA25214@nss4.cc.Lehigh.EDU>

Gang,

Since I am most likely to miss a number and cause much grief and overhead I'm stopping with the numbering scheme and just using the date as the number. I will attempt to put the dates previously posted in the series to give a historical background. Go back to your welcome message to see how to retrieve these and I will have them on the web page sometime this weekend.

Previous dates relative to Elmer205 Series:

981128 981130 981210 981211

OK, time for rollcall. If you following along and participating in this series send me email. Do not post to the group at large. They don't care to see a lot of traffic on this topic as it is, please. I'll not release your name. I need a count so that I can justify continuing or cancel it due to lack of interest. So don't delay, send in your name and call with the above title in the email. Also let me know if you can visit the web page as I need to know what percentage can get the really heavy stuff that I need to do from there. Thanks for your support.

OK, I'm assuming that you got a copy of SPICE from the server from the previous posting(s) and have successfully got it to run. Now the real fun begins. I have some good news and I have some bad news which I'll come to later. Hopefully there is a fix.

Open up your ARRL Handbook, 1995 or later for those that haven't been paying any attention at all :-), and turn to page 6.36. In figure 6.63 we are going to enter this circuit into SPICE, but let me explain how to do that.

1. SPICE needs nodes for every connecting terminal of components.
2. Node #0 is reserved for ground.
3. Start on the lower left hand side and put a zero for the lower terminal of the E(AC) voltage source. Now, don't write in your brand new book. Transcribe the circuit to your class notebook and therein number the nodes.
4. Node 1 will be the upper terminal of E(AC).
5. Node 2 will be the node between the ammeter and the inductor.
6. Node 3 will be the node between the inductor and the capacitor.
7. Node 4 will be the node between the capacitor and the resistor.
8. And the lower end of the resistor R is again 0, the ground.

Now SPICE doesn't have an ammeter per se, so let's put a small resistor in it's place for now. To enter this circuit into SPICE we need to create a file using your favorite editor and call that file SERIES.CIR. I use vim but you use whatever.

In SPICE you need one line per component and the first critter in the line denotes what type of component it is. R for resistor, C for cap, L for inductor, V for voltage source, and a bunch more that we will get to later on. Let's keep it simple for now. The first line in every source file MUST be a comment. If you forget this then the component that you put there will not be simulated in the circuit. OK? And the last line must be a .END line.

Since SPICE was originally written in FORTRAN everything had to be in upper case but most versions now automatically adjust, so if I do it one way and

your version complains, then just edit and go on. The program will train you just fine. :-) Don't they all?

Every component has a letter followed by the name that you give it, then two node numbers and the component value. The first node number is treated as the + or positive lead and the other the negative or - lead. This is important for voltage and current sources mainly. If you get a negative value then you have them backwards. I'll point this out later on.

So, for example, the resistor R is between nodes 4 and 0 (ground), and let's assume a value of 48 ohms. The line for it in the spice file would be

```
Rm 4 0 48ohms
```

or

```
Rm 4 0 48
```

and as we see you can add measurement units if you want, the program ignores them unless you make a serious error which I am about to show you for multipliers. SPICE understands the following multipliers

f or F	for femto	10^{-15}
p or P	for pico	10^{-12}
n or N	for nano	10^{-9}
u or U	for micro	10^{-6}
m or M	for milli	10^{-3}
k or K	for kilo	10^3
meg or MEG	for mega	10^6
g or G	for giga	10^9
t or T	for tera	10^{12}

so for a 1K resistor you could have any of the following values

```
1000 1k 1K 0.001meg 0.001MEG 1.0E3 1.0E03 1.0E+03
```

and you get the idea.

For a capacitor like 1uF you could put

```
1uF 1.0E-6 1000nF
```

BUT do not put 1.0E-6F as this is one millionth of a femtoFarad and you will not like the results. Consultants have lost days over this little bug-a-boo. :-) No, not me but I know someone.

OK, so our series circuit file might look like:

Series Resonant Circuit from HB 1995 or later

- * See Page 6.36 and figure 6.63
- * Replace ammeter with a resistor RI with small value 0.1ohm
- *
- * Data setup by Chuck Adams, K5F0
- *
- * Simulation to be run by Elmer205 Students
- *

```
VEAC  1  0  AC  1  DC  0
```

```
RI    1  2    0.1ohm
```

```
Lm    2  3  0.1971H
```

```
Cm    3  4  8.035114fF
```

```
Rm    4  0    48ohms
```

```
.PRINT AC V(4)
```

```
.AC LIN 31 3.99MEG 4.01MEG
```

```
.END
```

OK, I named the components a little different, but the names are arbitrary as far as SPICE is concerned. They just all have to be different. So VEAC is the voltage source at nodes 1 and 0, RI is the resistor that I used for the ammeter, Lm, Cm, and Rm are the LCR values and I used the sub-m notation as this represents a real crystal.

SPICE needs the .PRINT to save some stuff.

The .AC line is used for the AC source VEAC. We need to set it's frequency range and the number of steps. We are doing equal steps between 3.99MHz and 4.01MHz and we are doing 31 steps to start with. LIN for linear (equal steps) for 31 steps starting at 3.99MHz and ending at 4.01MHz and the program does all the work to figure out what the exact values are.

Now here is where your fun begins. Create the file in the directory for your version of spice. Name the file series.cir. And run it.

For the version of WinSpice3 that we are using under Windows98 you drag the file name onto winspice3 icon and it starts up.

Type in the following:

RUN

PLOT V(4)

and look at the graph. Ugly. Please note the range of values for the voltage and how ragged the curve is due to the small number of evaluation points. Max the window to get all the detail. Kill off the plot window. Now type in

EDIT

and use the editor (NotePad in my case) and change the number of points in the .AC line from 31 to 51. Save the file and exit the editor. Note that SPICE automatically asks you if you wanna run the new file and you type in YES. And guess what, repeat the PLOT command and look at the new curve.

Now go back with the editor and change the number of points to 501. Note how fast the program is right now because the simulation is smooth and simple.

Now I want to experiment with the following and get a feel for what is going on.

1. There is a way to plot the current, try

PLOT I(VEAC)

Is this what you expected for this type of circuit? The syntax of the plot is that you want the current through the voltage source. It is taken as positive if the current is going from positive node to negative node INSIDE the voltage source. Since it is not, you will get a negative current in this example. It's just the way it's done.

2. Change the frequency limits to narrow the range, since the Q is pretty high for this crystal.

3. Change and play with Rm. Make note of the maximum voltage values at V(4) for the different values. Leave RI alone for the moment.

OK, now let's see you do the following.

4. Go to page 85 of the Solid State Design book by Wes Hayward et.al. Forget about the trimmer cap right now in Fig 33. Modify the starting file above and call it fig33.cir (or whatever you can remember, I'd probably choose ssd85.cir to note the page number and add comments in the file to remind what in the world I was doing). I'll come back with my results. You have to change RI and add a load resistor and add a parallel cap to Rm-Lm-Cm combo, try 3.5pF. Now sweep the setup measuring, i.e. plotting the voltage

at the top of the load resistor. Compare with Wes's figure. Look on the bottom of page 86, first column and simulate his crystal.

For those with lab equipment, setup this experiment with a real crystal and do it. Be very very careful with the voltage levels and don't overdrive the crystal. Do you have a good enough setup to detect spurs? Can you automatically sweep with a spectrum analyzer and put the photo on a web page or send it to me and I'll put it on mine? I'll promise to give you credit for the work. A 2SC799 for the first person to do this for me..... the final PA in a lot of QRP rigs like the NorCal 40a, NN1G NE4040 rigs, etc.

And finally:

5. And for those of you that have Vol VI No 3 Autumn 1998 issue of QRPP, The Journal of the Northern California QRP Club, you lucky devils you turn in your hymnal to page 48. OK don't mark it up but copy the schematic to your notebook. Starting at the lower left hand ground point, put a 0 there. Then 1 between V1 and R9, 2 at the node between R9 and R10, 3 at the node between R10 and C13, etc. This is what I get:

*****VERY IMPORTANT*****

Oh, NO node in SPICE can be DC isolated from ground. So like you do with ugly construction using high value resistances to mount points, you put a one gig resistor, 1G, between the node and ground. It doesn't effect the results. Experiment with it if you want. Try 10G or 10Meg.

R14 and R15 or those resistors that Glen has and you wondered where they came from.....

*****END OF THAT MAGIC MOMENT*****

Generic Cohn Filter from QRPP Fall 1998 page 48

*
* Data setup by Chuck Adams, K5FO
* Original Values from Glen Leinweber, VE3DNL
*
* Simulation to be run by Elmer205 Students
*

V1 1 0 AC 1 DC 0

R9 1 2 354ohms

* Y1 - first crystal

R10 2 3 48ohms

C13 4 3 8.035113f

L5 5 4 0.1971H


```

* Y2 - second crystal
R11 5 6 48ohms
C14 7 6 8.035114f
L6 8 7 0.1971H

* Y3 - third crystal
R12 8 9 48ohms
C15 10 9 8.035115f
L7 11 10 0.1971H

* Internal parallel caps in crystals
C18 2 5 3.5pF
C19 5 8 3.5pF
C20 8 11 3.5pF

C16 5 0 141pF
R14 5 0 1G

C17 8 0 141pF
R15 8 0 1G

R13 11 0 354ohms

.PRINT AC V(11)
.AC LIN 201 3.9984MEG 4.0004MEG
.END

```

Now I played with some of the values just a little, so don't fret about it. But here is the bad news. If you are running PSPICE or any SPICE2G6 derivative you will get what Glen, VE3DNL, shows in the issue. I did this on the SGI O2 with my port of SPICE2G6. BUT the bad news is that the SPICE3F4 or SPICE3F5 versions do not get the correct results. It is the C version port that has a problem and I'll let you know when there is a work around or it is fixed and you can get the new version. I gotta work on it or beat on some people over the net, so stay tuned. It's a bug but not one that we need to really abandon the software for just yet. Those that have other software let me know what you get. Of course, this assumes that you have QRPp to check this out. We'll come back to it later for some more advanced work.

OK, here is what you should have learned.

- o How to specify resistors, inductors, and capacitors
- o How to create a set of nodes and the net list for the .cir file
- o How to specify an AC voltage source and its range of freqs to sweep
- o How to use the editor and modify values and rerun the file

- o How important sampling intervals are and how you could miss an important data point. The program doesn't automatically do this for you.

OK, this is the tip of the iceberg and should keep you busy this weekend when you are not on the air.

dit dit es gll

--

Chuck Adams K5FO adams@ticnet.com CP-60
<http://www.ticnet.com/k5fo>

Date: Fri, 18 Dec 1998 19:41:02 -0800
From: W7LS <w7ls@blarg.net>
To: w2bj@juno.com
Cc: qrp-l@lehigh.edu
Subject: [27582] Re: ISOTRON ANTENNAS
Message-ID: <367B204E.6200@blarg.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi. I messed around with an 80 meter one. It didn't do anything remotely equivalent to a dipole. I called the company and asked some questions about it, to make sure I was doing what was recommended. I was told that it has a very high radiation resistance. Huh? Shortened dipole? High radiation resistance? Uh, no. Besides, all the components can be bought for a few dollars at a hardware store. All it is is a severely shortened dipole. It has a 4" piece of PVC in the middle with some house wire wound around it and a couple of 1 foot long aluminum rods coming out the ends, hooked onto capacitive hats, made of sheet metal. They feed it a few turns from one end and that's that.

Did it work well? No. I'd run a random wire or a pair of Hamstics back to back before I'd look at one of those antennas.

If you want to build one, just take a grid dip meter, some house wire, a hunk of 4" PVC, and some sheet metal (cookie sheets come to mind) and fiddle until it resonates. Move a tap up the coil until it matches.

Hope I've saved someone from the mistake I made in buying one.

Jim W7LS

Barry J Minsky wrote:

>

> I am looking for a portable antenna that I can use on the balcony of a
> condo. This is not our regular residence. It is a beach condo that we
> own and rent to vacationers most of the time. When it is not rented, we
> use it ourselves for a couple of days at a time. I, therefore, cannot
> put up any permanent antenna. I need something I can put up and take
> down quickly. I have read about the Isotron antennas from Bilal Company.
> What do you think of this line? Do you have any other suggestions?
> 72/73,
> Barry J. Minsky, W2BJ
> ARRL, QRP ARCI #8871, NorCal #1560, QRP-L #1543, FISTS #2701, Century
> Club #569, FISTS CW Club of Coastal Georgia, Knightlites, Adventure
> Radio Society #359,
> Six Club #151, QCWA #29298, OOTC #3723
> Amateur Radio Missionary Service

Date: Fri, 18 Dec 1998 22:28:17 -0500
From: Fran Flynn <fflynn@together.net>
To: dhlaute@juno.com, qrp-l@lehigh.edu
Subject: [27583] Re: TS520
Message-ID: <367B1D50.341079F2@together.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

>dhlaute@juno.com wrote:
>QRP-L Gang,

>Can the Kenwood TS-520 be turned down for QRP use? How is the receiver?

>I have opportunity to get one for a very fair price.

I heard or read that if you remove voltage from the screen
grids of the finals, it'll still transmit but with qrp power
levels for output. You can wire it to a switch, perhaps.

I haven't tried doing that with mine,
I use other rigs for qrp. The 520 also has a drive control,
so you just use that to lower power. It isn't the greatest
reciever ever made but it's ok. It's a very reliable radio
and you can buy them for a song.

72

Fran Flynn
KM1Z

Date: 18 Dec 1998 22:02:49 -0600
From: "rohre" <rohre@arlut.utexas.edu>
To: "Barry Minsky" <w2bj@juno.com>, qrp-1@lehigh.edu
Subject: [27584] Balcony antennas, re Bilal
Message-ID: <n1298103870.93814@msmailgw1.arlut.utexas.edu>

Barry, and I know others often have this antenna question on portable temporary setups-

For field operations from a hotel or condo, you might as well get the most efficient antenna to put up, if you are taking time from vacation to operate and erect any antenna.

Most of these gimmick antennas like the Bilal are tuned circuits that are big enough to radiate! Yes, they work with good sun spots, but also your dummy load will too! How many remember stories of oldtimers using a lenght of coax to a 40W lightbulb with a Heathkit rig in the 50's and having someone come back to their test call? - And someone posted a dummy load QSO just recently. The Bilals are not that small when you get to the 80M model.

Now two things will help an antenna radiate efficiently independent of the most important elevation issue, which is taken care of by saying you are on a balcony.

First, you need a resonant antenna or a means to tune it to resonate. The small antennas do that usually with a coil of some kind. It has to be big conductors, or it will have loss, and it needs a good Q factor shape as well.

But, you also need antenna AREA to efficiently intercept or launch a wave, and not cancel the electromagnetic field upon itself. This is what simple vertical and dipole wire antennas bring to the operation. They intercept the area, and they are resonant if you cut them by the standard formulas. And this is all the more important to hear the other stations as well as to radiate your signal!

To fit the balcony situation, you can use a vertical with a counterpoise wire hung from the low side of the feed point out into space. A dowel can move the counterpoise out away from the building for better effect. Recent work with verticals that are elevated indicates you do not need the traditional quarter wave radial, it can be shorter to perhaps 1/8 wave. Thus, whatever space you have on the balcony floor could even be used to dress a radial around the edge for lower profile. Then you have the vertical actually projecting from the balcony rail as a flagpole might. You could erect such an antenna as an L shape, if you had a long fishing pole to extend the radial side out horizontally, while the other part is as vertical as you can get it.

Another idea is to use the higher bands, and most balconies will support a 10M Horizontal dipole stretched between the walls, or even projected out from the building using a couple of fishing poles with the dipole between them. The ends of a dipole could be allowed to droop without much effect on efficiency. But the dipole although thin, will intercept an area of capture far superior to the micro antennas.

A recent posting to this same effect pointed out the minimum resonant length a helical Slinky antenna had to have to have efficient radiation. It had to be even if dipole shaped, about a quarter wave length on the frequency of operation to have any radiating efficiency and not burn up your power in the conductors. (Thanks Ed L.)

So, you can spend a little money on hook up wire for conventional designs, and make or buy your insulators, and some simple dowels or fishing rod supports for the balcony antenna farm, or spend a lot more money on a commercial product that is somewhat more than a big tuned circuit. If you are QRP, maximize your efficiency with a good standard antenna of decent radiation resistance that comes with the sizing to dipole or vertical formulas.

Granted, if you have a micro balcony, or cannot hang or stretch the counterpoise, or your balcony is a patio at ground level, then another solution might be needed, but all the reviews of this commercial micro antenna admit they are not up to conventional antennas in results. However, if the extreme need of low profile case, then at a lot less cost you could use single band Hamsticks. The Bilal models are specific to single bands, and thus you would be locked into a one band scenario, unless you bought multiple models just as Hamsticks would require. Now if you have a lot of money to burn, you can buy an Outbacker for all bands, and make multiband radials to hang from it! It has plug in choice of each band, but it is pretty lossy if you forget to change the plug!

If you don't mind having to power your antenna, a Screwdriver, or DK3 as it was once called, with radials again would be a good choice for multibanding, and removes the need for a tuner to be taken along. It is most easily tuned up using a simple field strength meter, (merely a meter and a diode and short whip). With its infinite tuning of its loading coil, you can optimize it to any frequency within reason.

Part of the fun of a vacation antenna is doing the most with the least, like the hookup wire antenna you make yourself. The vertical will have the lower radiation angle, and thus enhance your chance of DX, while the dipole type will give you NVIS and a chance to work all the locals, unless you are up on a 10th floor balcony and then you too will work the DX!

72 and Happy Holiday!
Stuart K5KVH

Date: Fri, 18 Dec 1998 23:35:09 EST
From: Shepherd@aol.com
To: N10DL@aol.com, qrp-1@lehigh.edu
Subject: [27585] Re: Address change/FCC
Message-ID: <eb9908ac.367b2cfd@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit
Content-Transfer-Encoding: 7bit

In a message dated 12/18/98 9:07:55 PM Eastern Standard Time, N10DL@aol.com writes:

> Can anyone tell me how to go about letting the FCC know that I have moved?
> Thanks....
> Aron Brown
> N10DL
> Bedford, NH
> FISTS#4110
>

Aron es all,
This is from the FCC's Amateur Radio Services web site at:
<http://www.fcc.gov/wtb/amateur/>

You may also use a FCC Form 610 document to apply for renewal, including those within the grace period, or necessary modification of your name or mailing address shown on your amateur operator/primary station license grant. Use FCC Form 610-B document for a club, military recreation or RACES station. Order the form from (800) 418-FORM (3676), download it from <http://www.fcc.gov/formpage.html>, or call our Fax-on-demand system (202) 418-0177 from the handset of a facsimile machine. Currently, only an entity that is also a VEC can file electronically your FCC Form 610 for you. The entity may charge you a fee for providing this service. Otherwise, mail your completed Form 610 (no fee) to the following address:

FCC

1270 Fairfield Road

Gettysburg, PA 17325-7245

72, 73
Dan, N8IE
FISTS #4985
ARRL VE

Date: Sat, 19 Dec 1998 00:33:36 EST
From: PUNISHER3@aol.com
To: qrp-1@lehigh.edu
Subject: [27586] Isotron 20m bicycle mobile?
Message-ID: <ab4906c6.367b3ab0@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi. I am thinking about going bicycle mobile pretty soon, to get some exercise while enjoying the hobby, and I believe I saw an article in CQ about a bicycle mobile that was using a 20m isotron strapped on to his qrp rig. >From what I have heard from both this reflector and other places, isotron antennas aren't very effective and are a waste of money. It seems that I could make a replica of these types of antennas for a fraction of what they would cost if they were made by isotron themselves.

I would like to know if there are any plans anywhere, or someone could tell me how these antennas are made. These antennas are pretty small which would make it a good bicycle-mobile antenna, but I might be better off just with a whip or a hamstick. I would LOVE some feedback.

73,
Ben
KK7QX
HAPPY HOLIDAYS!

Date: Fri, 18 Dec 1998 21:56:01 -0800
From: W7LS <w7ls@blarg.net>
To: PUNISHER3@aol.com
Cc: qrp-1@lehigh.edu
Subject: [27587] Re: Isotron 20m bicycle mobile?
Message-ID: <367B3FF1.3562@blarg.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi. I think I would sling a Hamstick off the rear, up at a shallow angle, and one off the front, mostly vertical, to get away from rotational inertia, as you turn the handlebars. Take a tuner along. Might need it :-)

73 de Jim, W7LS

PUNISHER3@aol.com wrote:

>
> Hi. I am thinking about going bicycle mobile pretty soon, to get some
> exercise while enjoying the hobby, and I believe I saw an article in CQ about
> a bicycle mobile that was using a 20m isotron strapped on to his qrp rig.
> >From what I have heard from both this reflector and other places, isotron
> antennas aren't very effective and are a waste of money. It seems that I
> could make a replica of these types of antennas for a fraction of what they
> would cost if they were made by isotron themselves.
> I would like to know if there are any plans anywhere, or someone could
tell
> me how these antennas are made. These antennas are pretty small which would
> make it a good bicycle-mobile antenna, but I might be better off just with a
> whip or a hamstick. I would LOVE some feedback.
>
> 73,
> Ben
> KK7QX
> HAPPY HOLIDAYS!

Date: Sat, 19 Dec 1998 01:11:21 EST
From: Ab7wy@aol.com
To: qrp-l@lehigh.edu
Cc: dx-news@jerseycape.net, dx-list@makelist.com, cw@qth.net
Subject: [27588] A HAM CHRISTMAS
Message-ID: <e652b861.367b4389@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit
Content-Transfer-Encoding: 7bit

A Ham's Night Before Christmas

> 'Twas the night before Christmas,
> And all through two-meters,
> Not a signal was keying up
> Any repeaters.
>
> The antennas reached up
> From the tower, quite high,
> To catch the weak signals
> That bounced from the sky.
>
> The children, Tech-Pluses,
> Took their HT's to bed,

> And dreamed of the day
> They'd be Extras, instead.
>
> Mom put on her headphones,
> I plugged in the key,
> And we tuned 40 meters
> For that rare ZK3.
>
> When the meter was pegged
> by a signal with power.
> It smoked a small diode,
> and, I swear, shook the tower.
>
> Mom yanked off her phones,
> And with all she could muster
> Logged a spot of the signal
> On the DX PacketCluster,
>
> While I ran to the window
> And peered up at the sky,
> To see what could generate
> RF that high.
>
> It was way in the distance,
> But the moon made it gleam -
> A flying sleigh, with an
> Eight element beam,
>
> And a little old driver
> who looked slightly mean.
> So I thought for a moment,
> That it might be Wayne Green.
>
> But no, it was Santa,
> The Santa of Hams.
> On a mission, this Christmas,
> To clean up the bands.
>
> He circled the tower,
> Then stopped in his track,
> And he slid down the coax
> Right into the shack.
>
> While Mom and I hid
> Behind stacks of CQ,
> This Santa of hamming
> Knew just what to do.
>

> He cleared off the shack desk
> Of paper and parts,
> And filled out all my late QSLs
> For a start.
>
> He ran copper braid,
> Took a steel rod and pounded
> It into the earth, till
> The station was grounded.
>
> He tightened loose fittings,
> Resoldered connections,
> Cranked down modulation,
> Installed lightning protection.
>
> He neutralized tubes
> In my linear amp...
> (Never worked right before-
> Now it works like a champ).
>
> A new, low-pass filter
> Cleaned up the TV.
> He corrected the settings
> In my TNC.
>
> He repaired the computer
> That would not compute,
> And he backed up the hard drive
> And got it to boot.
>
> Then, he reached really deep
> In the bag that he brought,
> And he pulled out a big box.
> A new rig? I thought!
>
> A new Kenwood? An Icom?
> A Yaesu, for me?!
> (If he thought I'd been bad
> it might be QRP!)
>
> Yes! The Ultimate Station!
> How could I deserve this?
> Could it be all those hours
> that I worked Public Service?
>
> He hooked it all up
> And in record time, quickly
> Worked 100 countries,

> All down on 160.
>
> I should have been happy,
> It was my call he sent.
> But the cards and the postage
> Will cost two month's rent!
>
> He made final adjustments,
> And left a card by the key:
> "To Gary, from Santa Claus.
> Seventy-Three."
>
> Then he grabbed his HT,
> Looked me straight in the eye,
> Punched a code on the pad,
> And was gone - no good-bye.
>
> I ran back to the station,
> And the pile-up was big,
> But a card from St. Nick
> Would be worth my new rig.
>
> Oh, too late, for his final
> came over the air.
> It was copied all over.
> It was heard everywhere.
>
> The Ham's Santa exclaimed
> What a ham might expect,
> "Merry Christmas to all,
> And to all, good DX."
>
>
> (c)1996 Gary Pearce KN4AQ
> Permission granted for any print
> or electronic reproduction.

Happy Holidays de N7YA

Date: Sat, 19 Dec 1998 01:35:01 -0500
From: Sam Billingsley <SBillingsley@usaninc.com>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [27589] RE: Balcony antennas
Message-ID: <21E06269B00ED111BE9B00805F6D0FA354A90B@MAILSERVER1>

MIME-Version: 1.0

Content-Type: text/plain

One simple balcony antenna I have used I got the design right out of an old ARRL Handbook. Basically it was a 16ft aluminum pole (two 8ft tube sections with smaller tube coupler) attached to a plywood frame at one end on a 45 degree angle from horizontal. This plywood frame was attached to the balcony railing with C clamps or Cable ties. The balcony end of the pole was connected to an LC tuner with the L between the rig and the bottom of the antenna pole and the top of the C connected the junction of the L and the antenna. The bottom of the C was connected to the rig outer shield of the coax or rig's case and a counterpoise 1/4 wave insulated wire arranged around the edge of the balcony. The L was 3" diameter miniductor about 3" long with alligator clips to short out turns and the C was a var. capacitor of about 250pf. I was able to tune all bands between 40 and 10 mtrs without a problem and the operating results were very good for QRP. I think the condo height has something to do with it. The building will block some but if you can work many stations all over the country with this setup if the balcony as any view of North or Northwest. Regardless of you balcony orientation it will be useable. Since I built and used the first antenna (I was a collapsible golf ball retriever about 16 foot) I have switched to a expandable fishing pole (about 20 ft). It's lighter and closes to a smaller configuration. I have also replaced the manual LC tuner with an LDG QRP Auto Tuner and now I can quickly move between bands as though I had a multi-band semi-vertical. I cut a 1/4wave counterpoise wire for each band I'm interested in operating. These insulated wires can be an any shape and configuration that your space dictates.

I have since put this configuration onto a foldable aluminum stand that will let me use this in a location without any trees or the need to attach it to the ground. It simply rests on the ground. I have the bottom end of the vertical about 1 1/2 foot off the ground and use 2 1/4 wave radials (off the ground).

You can put one of the tiny wind socks at the upper end of the pole so that folks just think you have the pole just to support the wind sock. A small flag would also work.

I do have and use an AEA ISOLLOOP at home but it is BIG, bulky and expensive. I think have better results with the golf/fishing pole and tuner and it's NOT BIG, bulky(for storage) or expensive (if you make a manual tuner).

Currently I'm on a ground floor of a condo in St. Simons Island, GA and use the same setup but since the condo has antenna restrictions I just throw a small gauge insulated wire onto the branch of a very close tree to the patio area and operate (the semi-vertical) with my INDEX LABS at 5 watts on over the world. In this case the counterpoise is running around the edge of the room with the LDG QRP tuner doing its thing.

Sam Billingsley AE4GX St. Simons Island, GA (Home QTH Atlanta, GA)

Date: Sat, 19 Dec 1998 01:42:12 EST
From: we6w@juno.com (Ed Loranger)
To: qrp-1@lehigh.edu
Subject: [27590] Pixie2 Experiments tonight.
Message-ID: <19981218.223013.4207.4.we6w@juno.com>

Friends, I got focused on my pixie2 again and tonight I found a tuned-slug inductor that was part of a radioshack grab bag I bought 12 years ago. It is a 14 turn or so coil 1/2 as long as your little finger and about same width. I popped a small hole in the edge of my homebrew PC board case allowing access to the slug while the coil was soldered in.

Of course I pre-tested that the coil fit the 40 meter band with slightly longer wires before taking on the mildly painful task of fitting the coil in the existing space.

Results are fantastic. I have eliminated the last few microvolts of the 50 KW AM BC station only 2 miles from my home. I also added a .01 and 10 Kohm resistor from the the speaker side of the audio output capacitor of the LM386, running the cap/resistor in series from the cap to pin 1 of the LM386. Really helps keep the off frequency signals from being annoying.

Anyway, with the revised contest at the end of the month, I want my pixie2 at its best. Hey, I built it last year around this time, might as well polish it up every year. Could be an annual ritual with this little rig.

On vacation in Santa Rosa. Yee Haw!
-Ed L.
72, Ed WE6W QRP-Z#106 <http://www.qsl.net/we6w>
Enjoying Ham Radio every day! Santa Rosa, CA.

You don't need to buy Internet access to use free Internet e-mail.

Get completely free e-mail from Juno at <http://www.juno.com/getjuno.html>
or call Juno at (800) 654-JUNO [654-5866]

Date: Fri, 18 Dec 1998 23:00:57 -0800
From: "Roger A. McCarty" <rmccarty@earthlink.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [27591] Archives?
Message-ID: <000701be2b1d\$54329680\$9c05b2d1@rmccarty.earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Where might I find the archives for QRP-L?

Thanks

Roger A. McCarty ARS KD6CC
<http://www.qsl.net/kd6cc>

Caution! The 2nd Law of Thermodynamics is at work on all things at all times.
Mankind and Human nature are not exempt from entropy. The only solution is to decide on a higher standard, and commit yourself to it.

Date: Sat, 19 Dec 1998 02:40:49 EST
From: DYARNES@aol.com
To: henryf@quartz.gly.fsu.edu, qrp-l@lehigh.edu
Subject: [27592] Re: Who has some old 73's magazine
Message-ID: <a217d5d3.367b5881@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit
Content-Transfer-Encoding: 7bit

In a message dated 12/18/98 7:52:43 PM US Mountain Standard Time,
henryf@quartz.gly.fsu.edu writes:

<< I haven't seen a new issue since August. >>

The September issue is still on the rack at Borders here in Tucson as of this

afternoon. Nothing since then. By the way, I think I incorrectly told someone here I thought I had seen an October issue. I think I erred!

If I had to guess, I'd say you could stick a fork in 73! It's done! I miss it about as much as I'm missing the NBA right now!

72 de Dave W7AQK

Date: Sat, 19 Dec 1998 07:04:03 -0500
From: "dor" <elbc@pivot.net>
To: <fflynn@together.net>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [27593] Re: TS520
Message-ID: <000101be2b4c\$df41e8a0\$9e3d62ce@ours>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

-----Original Message-----

From: Fran Flynn <fflynn@together.net>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Date: Friday, December 18, 1998 10:40 PM
Subject: Re: TS520

>>dhlauten@juno.com wrote:

>>QRP-L Gang,

>

>>Can the Kenwood TS-520 be turned down for QRP use? How is the receiver?

>

>>I have opportunity to get one for a very fair price.

>

>I heard or read that if you remove voltage from the screen
>grids of the finals, it'll still transmit but with qrp power
>levels for output. You can wire it to a switch, perhaps.

>

>I haven't tried doing that with mine,

>I use other rigs for qrp. The 520 also has a drive control,
>so you just use that to lower power. It isn't the greatest
>reciever ever made but it's ok. It's a very reliable radio
>and you can buy them for a song.

>

>72

>

>Fran Flynn

>KM1Z

>

actually the best way to run qrp with the Ts520 is to apply a small positive voltage to the alc circuitry located at the accessory plug (check manual for pin out)

good Luck

73 Dave KC1DI

Date: Fri, 19 Dec 1997 07:30:15 -0500

From: "Harry T. Hurst, WA3PTG" <hhurst@delaware.infi.net>

To: <DYARNES@aol.com>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Subject: [27594] Re: Who has some old 73's magazine

Message-ID: <199812191319.IAA23357@fh105.infi.net>

MIME-Version: 1.0

Content-Type: text/plain; charset=ISO-8859-1

Content-Transfer-Encoding: 7bit

Content-Transfer-Encoding: 7bit

Yup, it probably is done.

It was my first contact with ham radio back in 1960? I was 11 or 12 years old, and VERY curious about radio. That issue was in shreds when I was done with it. Great stuff.

>

> << I haven't seen a new issue since August. >>

>

> The September issue is still on the rack at Borders here in Tucson as of this

> afternoon. Nothing since then. By the way, I think I incorrectly told

> someone here I thought I had seen an October issue. I think I erred!

>

> If I had to guess, I'd say you could stick a fork in 73! It's done! I miss

> it about as much as I'm missing the NBA right now!

>

> 72 de Dave W7AQK

Date: Sat, 19 Dec 1998 07:52:37 -0600

From: Kelly Ellison {WB0WQS} <kelman@dialnet.net>

To: rmccarty@earthlink.net

Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>

Subject: [27595] Re: Archives?
Message-ID: <367BAFA5.FF0BB172@dialnet.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Roger A. McCarty wrote:
>
> Where might I find the archives for QRP-L?
>

Roger,

There are two that I know of... WD8RIF has a nice archive at:
<http://www.qsl.net/~wd8rif/archives.htm>

Or, the QRP-L site at: <http://QRP.CC.ND.EDU/QRP-L/clubinfo.html> Hope
this helps.

Thanks to all who made QRP-L possible and those who keep it going.

Kelly Ellison - WB0WQS - Aurora, Mo - QRP-L#702

Date: Sat, 19 Dec 1998 08:54:23 -0500
From: Bruce Muscolino <w6toy@erols.com>
To: QRP-L@LEHIGH.EDU
Cc: henryf@quartz.gly.fsu.edu, DYARNES@aol.com
Subject: [27596] Re: Who has some old 73's magazine
Message-ID: <367BB00F.4583@erols.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Guys,

I have both the November and December 1998 issues of 73 Magazine. It is
still in publication. Perhaps you should consider subscribing rather
than just reading it at a newstand?

73

Date: Sat, 19 Dec 1998 09:03:36 -0500

From: mikemo@ibm.net
To: qrp <qrp-1@Lehigh.EDU>
Subject: [27597] MFJ 9406
Message-ID: <367BB238.4CB4@ibm.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Any opinions on the MFJ 9406 6 meter QRP ssb transceiver?
I have an opportunity to get one at a good price.
Thanks and 72, de ku4qo, Mike Maiorana, Palm Harbor, FL

Date: Sat, 19 Dec 1998 06:11:29 -0800
From: David Shalita <af389@lafn.org>
To: "qrp-1@Lehigh.EDU" <qrp-1@Lehigh.EDU>
Cc: "Ham-Homebrew@ucsd.edu" <Ham-Homebrew@ucsd.edu>
Subject: [27598] 2N4427 SPICE Model needed
Message-ID: <367BB411.FC72D7A8@lafn.org>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi,

I wish to thank everyone for the useful MC1310 info and for the 2N5109
and 2N5197 SPICE Models. These models seem to work OK
with Winspice3.

Does anyone have a SPICE Model for 2N4427?

Again, my searches on web produced nothing.
Thank you very much and happy holidays.

--

David Shalita (Dave)
af389@lafn.org
Van Nuys, CA

Date: Sat, 19 Dec 1998 06:21:41 -0800
From: David Shalita <af389@lafn.org>
To: "qrp-1@Lehigh.EDU" <qrp-1@Lehigh.EDU>
Subject: [27599] Elmer 205-WinSpice3 - Plot Immediately

Message-ID: <367BB675.2FE2B673@lafn.org>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi,
If you would like your Winspice3 simulations to produce plots
immediately after running,
include the PLOT commands at the end of the "cir" file.

Start each command line with *#
"only lower case typing is allowed"
Example
*# plot vdb(3) vdb(5)

Place these commands after the ".END" statement.

I have modified Chuck's e200-1.cir file to make it plot immediately.

-----Modified e200-1.cir file follows
AC ANALYSIS OF FIVE ELEMENT CHEBYSHEV FILTER
*
* FIVE ELEMENT CHEBY FILTER
* #91 in ARRL Handbook Chapter 30 page 25, 30.25 with new
* numbering system in 1995 and later handbook
*
* Results in Handbook
* Fco 3dB 20dB 40dB MaxSWR
* 7.33 8.89 12.3 18.3 1.175
*
VS 9 0 AC 1
RS 9 1 50
C1 1 0 390PF
L1 1 2 1.48UH
C2 2 0 750PF
L2 2 3 1.48UH
C3 3 0 390PF
RL 3 0 50
.PRINT AC VDB(1) VDB(3)
.AC LIN 71 7MEG 21MEG
.END

* Commands to make Winspice3 plot immediately
*# ac lin 71 7meg 21meg
*# plot vdb(1) vdb(3)
*****end of SPICE file*****
Hope this works for you, sure is helpful for me.

Happy Holidays,
73, W6MIK

--

David Shalita (Dave)
af389@lafn.org
Van Nuys, CA

Date: Sat, 19 Dec 1998 09:44:44 -0500
From: Sam Billingsley <SBillingsley@usaninc.com>
To: "Qrp1_Submit (E-mail)" <qrp-1@Lehigh.EDU>
Subject: [27600] ELMER 205 - Spice Verison Differences
Message-ID: <21E06269B00ED111BE9B00805F6D0FA354A912@MAILSERVER1>
MIME-Version: 1.0
Content-Type: text/plain

I have the Robert Lamey boook "The Illustrated Guide to PSpice". It includes Version 6 diskette. Will all the examples being used by the ELMER thread work with this version? Are there any differences that will make using Ver 6 difficult?

Direct replies appreciated.

Sam Billingsley AE4GX St. Simons Island, GA (Home QTH - Atlanta, GA).

Date: Sat, 19 Dec 1998 07:08:03 PST
From: "Brad Hernlem" <alihernlem@hotmail.com>
To: qrp-1@lehigh.edu
Subject: [27601] U310
Message-ID: <19981219150804.11239.qmail@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain

Does anyone know where I can get a few U310 JFETs to experiment with. I don't need a railcar load, just perhaps 3-10. The J versions (plastic) of these devices are easy enough to find but I can't seem to find the U variety anywhere.

Thanks for your help.

Brad

Get Your Private, Free Email at <http://www.hotmail.com>

Date: Sat, 19 Dec 1998 10:39:48 -0500
From: Russ Hines <radioruss@fuse.net>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [27602] Re: A HAM CHRISTMAS
Message-ID: <367BC8C4.35C17505@fuse.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Ab7wy@aol.com wrote:

>
> A Ham's Night Before Christmas
>

> > A new Kenwood? An Icom?
> > A Yaesu, for me?!
> > (If he thought I'd been bad
> > it might be QRP!)
> >

A very cute poem... but I don't think I like this part. <grin>

Merry Christmas everyone!

73,
WB8ZCC

Date: Sat, 19 Dec 1998 09:58:58 -0600
From: n5inz@juno.com (John M Andrews)
To: qrp-1@lehigh.edu
Subject: [27603] RE: A Ham Christmas...
Message-ID: <19981219.095859.3510.3.N5INZ@juno.com>

...Not to mention the ever elusive K-2.

N5INZ

You don't need to buy Internet access to use free Internet e-mail.
Get completely free e-mail from Juno at <http://www.juno.com/getjuno.html>
or call Juno at (800) 654-JUNO [654-5866]

Date: Sat, 19 Dec 1998 08:19:54 -0800
From: "Roger A. McCarty" <rmccarty@earthlink.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [27604] Reduction drives available; Last repost
Message-ID: <000701be2b6b\$69b7c9a0\$b605b2d1@rmccarty.earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hello!

I have an opportunity to get reduction drives at what I think is a reasonable price. There are two models available, a 1.5" unit and a 2.0" unit. Both are 8-1 reduction and drive a .25" shaft. Both are calibrated in a 0-100 scale. These were common just a few years ago, used for many of the projects in all of the ham mags. Now it seems they are becoming harder to find. I have seen them at a local electronics shop for \$14.00 and \$18.00 respectively. If I can get a 40 order minimum, I will pass them on at \$7.00 and \$8.50.

If you are interested, please drop me a note.

73!

Roger A. McCarty ARS KD6CC
<http://www.qsl.net/kd6cc>

Caution! The 2nd Law of Thermodynamics is at work on all things at all times.

Mankind and Human nature are not exempt from entropy. The only solution is to decide on a higher standard, and commit yourself to it.

Date: Sat, 19 Dec 1998 11:14:10 -0500
From: Fran Flynn <fflynn@together.net>
To: dor <elbc@pivot.net>, qrp-l@lehigh.edu
Subject: [27605] Re: TS520
Message-ID: <367BD0D2.B9FA396B@together.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Content-Transfer-Encoding: 7bit

dor wrote:

```
>
> -----Original Message-----
> From: Fran Flynn <fflynn@together.net>
> To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
> Date: Friday, December 18, 1998 10:40 PM
> Subject: Re: TS520
>
> >>dhlaute@juno.com wrote:
> >>QRP-L Gang,
> >
> >>Can the Kenwood TS-520 be turned down for QRP use? How is the receiver?
> >
> >>I have opportunity to get one for a very fair price.
> >
> >I heard or read that if you remove voltage from the screen
> >grids of the finals, it'll still transmit but with qrp power
> >levels for output. You can wire it to a switch, perhaps.
> >
> >I haven't tried doing that with mine,
> >I use other rigs for qrp. The 520 also has a drive control,
> >so you just use that to lower power. It isn't the greatest
> >reciever ever made but it's ok. It's a very reliable radio
> >and you can buy them for a song.
> >
> >72
> >
> >Fran Flynn
> >KM1Z
> >
> actually the best way to run qrp with the Ts520 is to apply a small positive
> voltage to the alc circuitry located at the accessory plug (check manual for
> pin out)
> good Luck
> 73 Dave KC1DI
```

The only reason I don't use it for QRP is that I don't have an accurate and convenient means of measuring the output power. I could always use a scope and a dummy load, but I'm too lazy, besides, the Sierra is fun to use too and I know I can't make more than 4 watts with it.

To get to the point. Do you use a TS520 that way and how do you measure power out?

Thanks,
Fran

Date: Sat, 19 Dec 1998 08:31:03 -0800
From: "Radman" <radman@best.com>
To: <alihernlem@hotmail.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [27606] Re: U310
Message-ID: <199812191628.IAA27531@proxy4.ba.best.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi Brad,

RF Parts has the (metal can) Motorola U310. They're \$3.95 ea with a min order of \$25.00.
Phone: 800-737-2787
URL: <http://www.rfparts.com/misctran.html>

Here's a FET preamp circuit you might enjoy, that employs the U310...
URL: <http://www.ham-radio.com/n6ca/50MHz/50appnotes/U310.html>

Sorry I don't know of a cheaper price. I guess the ol' U310 is going the way of the vacuum tube ?

GL es 72 - Conrad Weiss - NN6CW

Does anyone know where I can get a few U310 JFETs to experiment with. I don't need a railcar load, just perhaps 3-10. The J versions (plastic) of these devices are easy enough to find but I can't seem to find the U variety anywhere.

Thanks for your help.

Brad

Date: Sat, 19 Dec 1998 08:57:49 -0800
From: "Roger A. McCarty" <rmccarty@earthlink.net>
To: <kelman@dialnet.net>
Cc: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [27607] RE: Archives?; more assistance needed
Message-ID: <000b01be2b70\$b5993200\$b605b2d1@rmccarty.earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Thanks very much to all that replied regarding the QRP-L archives.
Unfortunately, I am unable to find what I am looking for. Specifically,
articles/discussions on the "Tayloe Detector". I understand beginning on or
about 10/19/98.

The Lehigh http server either denies me permission to access these files, or
perhaps the server is down. I can access the files via an FTP server,
however I am unfamiliar with the ".Z" file extension.

Any help?

Thanks again for everyones support

Roger KD6CC

> -----Original Message-----
> From: Kelly Ellison {WB0WQS} [mailto:kelman@dialnet.net]
> Sent: Saturday, December 19, 1998 5:53 AM
> To: rmccarty@earthlink.net
> Cc: Low Power Amateur Radio Discussion
> Subject: Re: Archives?
>
>
> Roger A. McCarty wrote:
> >
> > Where might I find the archives for QRP-L?
> >
>
> Roger,
>
> There are two that I know of... WD8RIF has a nice archive at:
> <http://www.qsl.net/~wd8rif/archives.htm>
>
> Or, the QRP-L site at: <http://QRP.CC.ND.EDU/QRP-L/clubinfo.html> Hope

> this helps.
>
> Thanks to all who made QRP-L possible and those who keep it going.
>
> Kelly Ellison - WB0WQS - Aurora, Mo - QRP-L#702
>

Date: Sat, 19 Dec 1998 11:56:54 +0000
From: Michael Neverdosky <MichaelN@cycat.com>
To: qrp-l mailing list <qrp-l@Lehigh.edu>
Subject: [27608] Re: For Eggbeater antenna plans look hr
Message-ID: <367B9486.E76C2286@cycat.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

For those considering the 'eggbeater' you might also consider
the quadrifilar helix, best described in "Reflections".

The quad helix handles circular polarization and has a pattern
that favors the needs of satellite reception, i.e. more gain to
the horizon and less overhead, roughly matching the changes
in path loss for low earth orbit satellites.

It is more complicated to build, but may be well worth the effort
especially if you find that signal levels are marginal with
the eggbeater.

I would try the eggbeater first and only build the more complicated
quad helix if I wanted/needed better signal than from the egg'.

Fun stuff to play with.

michael N6CHV

tjmc@erols.com wrote:
>
> For the person looking re eggbeater antenna;
>
> <http://aardvark.apana.org.au/~brucej/eb.html>

Date: Sat, 19 Dec 1998 12:31:40 -0500 (EST)

From: Robert Parks <rob3ert@vegas.infi.net>
To: qrp-1@Lehigh.EDU
Subject: [27609] Re: Who has some old 73's magazine
Message-ID: <199812191731.MAA29799@fh102.infi.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Gang,

I just saw a Dec. 1998 issue of 73 at AES, here in Las Vegas. It had about 64 pages and had an article (among others) about a QRP antenna tuner. I don't think you can count ole 'NSD out, yet.

72/73

Bob Parks
K6AEC (Las Vegas)

At 02:40 AM 12/19/98 EST, you wrote:

>In a message dated 12/18/98 7:52:43 PM US Mountain Standard Time,

>henryf@quartz.gly.fsu.edu writes:

>

><< I haven't seen a new issue since August. >>

>

>The September issue is still on the rack at Borders here in Tucson as of this

>afternoon. Nothing since then. By the way, I think I incorrectly told

>someone here I thought I had seen an October issue. I think I erred!

>

>If I had to guess, I'd say you could stick a fork in 73! It's done! I miss

>it about as much as I'm missing the NBA right now!

>

>72 de Dave W7AQK

>

>

Date: Sat, 19 Dec 1998 10:33:49 -0700

From: gsurrency@juno.com (Gary L Surrency)

To: radman@best.com

Cc: qrp-1@Lehigh.EDU

Subject: [27610] Re: U310

Message-ID: <19981219.103350.-4172863.1.gsurrency@juno.com>

MIME-Version: 1.0

Content-Type: text/plain

Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Conrad, et. al:

I use J310's or J309's. They have better noise figure (1.5db vs 3.2 db), are cheaper, and the J309 has a Gm of 10000 (same as the U310), ID of 30ma max where the J310 has a Gm of 8000, but more current capacity of 60ma, same as the U310. Their input C, however, is a bit higher at 7.5pf vs 2.5pf for the U310.

Both the J309 and J310 have a higher f_max of 1000 MHz, vs 450 MHz for the U310. They are in plastic T0-92 pkgs, vs metal T0-52 for the U310.

I get them from various suppliers, such as Circuit Specialists, Mouser, etc.

Source:

1995 ARRL Handbook, page 24.21

72,

Gary Surrency AB7MY QRP-L #571 Chandler, AZ (near Phoenix)

You don't need to buy Internet access to use free Internet e-mail.
Get completely free e-mail from Juno at <http://www.juno.com/getjuno.html>
or call Juno at (800) 654-JUNO [654-5866]

Date: Sat, 19 Dec 1998 11:49:22 -0600
From: "Karl Heimbach" <heimbach@concentric.net>
To: <qrp-l@LEHIGH.EDU>
Subject: [27611] Jumpering of Lambda Model LH125AFM regulated supply
Message-ID: <009f01be2b77\$ed910780\$620505ac@pentium>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hello gang,

Some months ago, I was given a Lambda LH125AFM bench supply.
Although the voltage should be adjustable from the front of the supply, I'm getting 67 VDC regardless of any settings.

The jumpers on the back of the supply are all open and perhaps one or more pair should be interconnected to allow front panel adjustment.

Is anyone else using this supply or know where jumpering information may be available? I've submitted a request to the Lambda Electronics webpage, but have not had a response yet.

Regards,

Karl Heimbach - W5QJ

Date: Sat, 19 Dec 1998 10:50:22 -0700 (MST)
From: Paul Harden <pharden@aoc.nrao.edu>
To: Gary L Surrency <gsurrency@juno.com>
Cc: Low Power Amateur Radio Discussion <qrp-1@lehigh.edu>
Subject: [27612] Re: U310
Message-ID: <Pine.SOL.3.91.981219104638.19975B-100000@zia>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

> I use J310's or J309's. They have better noise figure (1.5db vs 3.2 db),
<snip>

I agree with Gary ... J310's are pretty good FET's for most HF applications, and short of VHF use, probably very little difference from the U310. And cheaper too!

> I get them from various suppliers, such as Circuit Specialists, Mouser,
> etc.

I got a bunch not long ago from Dan's, and have used several of them already, all worked well. You might check to see if they are still listed with him also.

GL, Paul NA5N

Date: Sat, 19 Dec 1998 13:05:02 -0500
From: "Kenneth W. Evans" <w4du@bellsouth.net>
To: QRP List <qrp-1@Lehigh.EDU>

Cc: Bob Gobrick <rgobrick@att.net>, Buck <n8cqa@tir.com>, Hank Kohl
<k8dd@tir.com>, L Young <lcyoung@bellsouth.net>, Mike C <wa8mcq@erols.com>,
Phil Specht <k4pqc@bellsouth.net>, W4QO <w4qo@america.net>, "Scott Rosenfeld
[NF3I]" <ham@w3eax.umd.edu>, "Heron, George" <n2apb@amsat.org>
Subject: [27613] FDIM 99 Announcement
Message-ID: <367BEACE.B46DC5BA@bellsouth.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=iso-8859-1
Content-Transfer-Encoding: 8bit
Content-Transfer-Encoding: 8bit

QRP Amateur Radio Club, International (QRP-ARCI) proudly announces the fourth annual "Four Days In May " QRP Conference commencing Thursday, May 13, 1999 - the first of four festive days of 1999 Dayton Hamvention activities. Mark your calendar for this extra bonus day and register early for this not-to-be-missed QRP event of 1999.

Amateur Radio QRP presentations, workshops and demonstrations will be the focus of the full day Thursday QRP Symposium to be held at QRP ARCI headquarters - the Days Inn Dayton South. Last year, this sold-out event had a "standing room only" crowd of 175 enthusiastic attendees. FDIM QRP Symposium attendees will start their day with a wake-up coffee social and then plunge into a full day of multimedia QRP presentations by renowned QRP authors and designers.

Papers to be presented include:

- * "Vertical Antenna Design & Analysis" by L.B. Cebik, W4RNL
- * "Constructing QRP Equipment" by Rev. George Dobbs, G3RJV
- * "Design of a DSP-based Coherent CW Xcvr" by George Heron, N2APB
- * "QRP Construction Tools & Tricks" by Dick Pascoe, G0BPS
- * "Mixer Madness" by Clark Fishman, WA2UNN
- * "PIC-based Rainbow SWR Bridge/Tuner" by Joe Everhart, N2CX
- * "When Signals go Wrong - Distortion Demystified" by Dave Benson, NN1G

Culminating this first day, will be an evening QRP ARCI Author Social for folks to meet the QRP presenters. All are invited. The QRP ARCI "Four Days In May" 99 QRP Symposium will be the talk of the Dayton Hamvention.

The "Four Days in May" QRP extravaganza continues with the annual Friday night QRP ARCI Awards Banquet honoring QRP dignitaries for their service to the Amateur Radio community. A special evening has been set aside after the banquet for the FDIM QRP Vendor Social where prizes will be drawn. All are invited.

FDIM Saturday will be special this year with an evening social for QRPers to meet the many regional North American and International QRP Club members - bring your banners! The evening culminates with a

BUILDING CONTEST ... the categories are wide open so bring your latest kit, homebrew project, antennas, whatever! Judges will select winners for prizes, a feature article spot in the next QRP Quarterly, and will be candidate for project kitting, courtesy of the QRP ARCI. All are invited.

"FOUR DAYS IN MAY" 99 QRP CONFERENCE
"Frequently Asked Questions"

QRP SYMPOSIUM PRESENTERS

Please submit your QRP technical manuscripts to FDIM 99 Technical Paper chairperson George Heron, N2APB, 45 Fieldstone Trail, Sparta, NJ 07871, n2apb@amsat.org . FDIM 99 QRP Symposium Proceedings will be available for sale during and after the Conference for those unable to attend the Symposium.

FDIM QRP SYMPOSIUM REGISTRATION

Registration for the Thursday, May 13, 1999 FDIM QRP Symposium will be \$10 if prepaid by May 1, 1999 and \$12 after that date, or at the door. "At the door" registration may be limited if, once again, we sell out. Please register early to guarantee a seat. Registration will cover a full day of QRP Symposium activities, including the QRP technical presentations and an endless QRO coffee pot. The \$10 registration fee also includes a complimentary copy of the FDIM 98 QRP Symposium Proceedings.

Please send your \$10 registration fee (US check, money order, international money order) made out to "QRP ARCI" and a SASE by May 1, 1999 to: Philip Specht, 925 Saddle Ridge, Roswell, GA 30076 USA or E-mail: k4pqc@bellsouth.net for information. Along with your registration check, please provide the name, US Mail address, telephone number and e-mail address of each attendee. Also provide call sign(s) if available and a self-addressed stamped envelope if return confirmation is desired.

AWARDS BANQUET REGISTRATION

This not-to-be-missed Friday May 14, 1999 event is being hosted by FDIM Banquet chairperson Scott Rosenfeld NF3I. Please send your \$25 banquet ticket fee (US check, money order, international money order) made out to "QRP ARCI" and a SASE by May 1, 1999 to: Scott Rosenfeld NF3I, QRP ARCI Banquet Tickets, 2250 Paterson St 50, Eugene, OR 97405-2988 USA. Along with your registration check, please provide the name, US Mail address, telephone number and e-mail address of each attendee. Also provide call sign(s) if available and a self-addressed stamped envelope if return confirmation is desired.

FDIM QRP VENDOR SOCIAL

A tradition was started several years ago - a special evening was set

aside to officially introduce our QRP Vendors from around the world. This year, all are invited to attend this wonderful gathering of vendors during each of the three evening s socials. Jim Stafford, W4Q0, QRP ARCI Vice President, will be the host this year. QRP Vendors - for registration information please contact Jim Stafford W4Q0, QRP Vendor Evening Chairperson, at 11395 West Road, Roswell, GA 30075 or via Email: w4qo@amsat.org

QRP ARCI FDIM HEADQUARTERS

The Days Inn Dayton South (DIDS) will be the 1999 FDIM QRP headquarters. Hank Kohl, K8DD has arranged a special block of reduced-rate rooms to be held at the hotel for FDIM attendees wishing to conveniently stay at the ARCI headquarters for the weekend festivities. Rooms are \$72/night (+ tax) with as many occupants as desired. Let Hank know if you will be needing one of these special rate rooms. He can be reached at: QRP-ARCI Rooms, 1640 Henry, Port Huron, MI 48060-2523 USA. You can also contact Hank by e-mail at: k8dd@contesting.com

On behalf of the QRP ARCI team we invite you all to join us for the QRP Event of 1999 - the "Four Days In May" 99 QRP Conference at the 1999 Dayton Hamvention. See you all there!

73/72,

Ken Evans, W4DU, FDIM 99 Chairperson. Email: w4du@bellsouth.net

Date: Sat, 19 Dec 1998 10:57:33 PST
From: "Brad Hernlem" <alihernlem@hotmail.com>
To: qrp-l@lehigh.edu
Subject: [27614] Re: U310
Message-ID: <19981219185734.28102.qmail@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain

Thanks Paul, Gary and Conrad for the info.

I have some J309s that came from Dan's. They are nice FETs.

Any thoughts on the SMD versions of these FETs? I see that Allied has 'em for around \$0.34 each.

Brad

>> I use J310's or J309's. They have better noise figure (1.5db vs 3.2 db),
><snip>
>
>I agree with Gary ... J310's are pretty good FET's for most HF
>applications, and short of VHF use, probably very little difference
>from the U310. And cheaper too!
>
>> I get them from various suppliers, such as Circuit Specialists,
Mouser,
>> etc.
>
>I got a bunch not long ago from Dan's, and have used several of them
>already, all worked well. You might check to see if they are still
>listed with him also.
>
>GL, Paul NA5N
>
>

Get Your Private, Free Email at <http://www.hotmail.com>

Date: Sat, 19 Dec 1998 14:14:30 -0500
From: "T.J. \"SKIP\" Arey N2EI" <tjarey@home.com>
To: NJQRP Club <njqrp@njqrp.org>
Cc: "qrp-1@Lehigh.EDU" <qrp-1@Lehigh.EDU>
Subject: [27615] Jersey Fireball 40
Message-ID: <367BFB16.62FE52F@home.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

I got my Fireball 40 kit in the mail today.

So much for watching "Its A Wonderful Life" this evening.

--

+++++

T.J. "SKIP" AREY N2EI e-mail tjarey@home.com

Website <http://members.home.net/tjarey>

Snail Mail: PO Box 236, Beverly, NJ 08010

Specialization is for insects! LAZARUS LONG

Date: Sat, 19 Dec 1998 14:22:46 EST
From: HWRM1SS@aol.com
To: qrp-1@lehigh.edu
Subject: [27616] Atlanticon 99/Holiday Inn Reservations GOING FAST!!!
Message-ID: <e59700c4.367bfd06@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit
Content-Transfer-Encoding: 7bit

Gentlemen,

Made my reservations for Atlanticon 99 yesterday - I had to call four (4) times before I got a reservation clerk -- The rooms are going fast at the \$69/per night rate so make your plans and reservations SOON!

K3HW

P.S. -- Got My Fireball today also -- What a wonderful life !!

Date: Sat, 19 Dec 1998 13:00:50 -0700
From: Niels Jensen Kristjansson <nkristja@cadvision.com>
To: qrp-1@Lehigh.EDU
Subject: [27617] FOX:We've come a long way!
Message-ID: <1.5.4.16.19981219135756.1af710c8@cadvision.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hi Ed es gang,

It was bound to happen that we would draw attention with the racket the Fox hunt makes on 40m. On more than a few occasion I have heard local hams wondering what that HUGE PILEUP was just to be even more stumped by the common sounding call at the bottom of it, I grin to my self and say only one word 'QRP' he he he...

72 de Niels

VE6NJK/TF3NJ

>
>With the pack of hounds calling, Brad describes this
>as -- "Pandemonium erupted again. There were at least
>a dozen people sending their calls."
>

Date: Sat, 19 Dec 1998 13:30:13 -0600
From: Lee Bahr <bahr521@earthlink.net>
To: DYARNES@aol.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [27618] Re: Who has some old 73's magazine
Message-ID: <367BFEC5.66C8F3FE@earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

I have received all my 73 magazines including the Dec 98 issue. Lee
Bahr w0vt

DYARNES@aol.com wrote:

>
> In a message dated 12/18/98 7:52:43 PM US Mountain Standard Time,
> henryf@quartz.gly.fsu.edu writes:
>
> << I haven't seen a new issue since August. >>
>
> The September issue is still on the rack at Borders here in Tucson as of this
> afternoon. Nothing since then. By the way, I think I incorrectly told
> someone here I thought I had seen an October issue. I think I erred!
>
> If I had to guess, I'd say you could stick a fork in 73! It's done! I miss
> it about as much as I'm missing the NBA right now!
>
> 72 de Dave W7AQK

Date: Sat, 19 Dec 1998 14:17:02 -0600
From: "Steve Yates, AA5TB" <aa5tb@swbell.net>
To: mikemo@ibm.net

Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>

Subject: [27619] Re: MFJ 9406

Message-ID: <367C09BE.A50B727E@swbell.net>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

Content-Transfer-Encoding: 7bit

Mike,

I've had one since June and have been very happy with it. The rig's best feature is the transmit quality. I have had several great comments about the transmit audio before mentioning what kind of radio it was. In fact, I've made some kilowatt stations annoyed when they found out I was using a 10 Watt MFJ rig and a dipole. It does has some speech processing (4-6dB) and provisions for keying an external amplifier.

The receiver has plenty of sensitivity, frequency stability and good AGC. There is plenty of rx audio power for mobile use. I don't know what its dynamic range is but it never has had any problem handling strong signals. The receiver is specified at 1.5 dB NF with an active DBM (Doubly Balanced Mixer) in the front in.

The negatives are that the speaker is in the lid and it doesn't have an external speaker jack (easily remedied). Mine does have a headphone jack even though the manual doesn't indicate one. CW is possible with the purchase of an additional module. It is some what difficult to find what frequency you're on with the coarse (a mark every 25 KHz) analog dial but it is accurate. Once you find out where the calling frequencies are you can mark it on the dial.

Given that I only paid \$200 for this rig new with the microphone at HamCom I think it was a very good buy.

73,

Steve Yates

AA5TB

aa5tb@swbell.net

<http://home.swbell.net/aa5tb/>

Fort Worth, Texas

Date: 19 Dec 98 15:38:28 EST

From: Roy Lincoln <wa4dou@usa.net>

To: qrp-1@lehigh.edu

Subject: [27620] Ground Planes; 5/8th wave Verticals,etc.

Message-ID: <19981219203829.16802.qmail@www0h.netaddress.usa.net>

Mime-Version: 1.0

Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

Content-Transfer-Encoding: 7bit

Hi Gang,

Recently got married again and moved in with my new wife. Lost my wooded lot with wire antennas up at the 55-65 ft. level and now having been dethroned and returned to mere "mortal" status, i'm forced, for a while at least, to return to

the use of vertical antennas.

I've resurrected my old 20-15-10 meter Cushcraft vertical and mounted it on a

TV mast at 18 feet, alongside our mobile home. I made 6 sets of radial wires from 3 conductor rotator wire. Remembering that the use of such wire, in the "fan dipole" configuration, necessitates allowing the ends of each of the shorter wires to "dangle" for the last couple of feet in length, so as not to be

in such close proximity to the adjacent wires, i figured i might have to do the

same thing with my radial wires. Found that as long as they were in such close proximity to each other along any part of their length, the tuning of them was radically different from "classic" calculations. I did the expedient thing and separated them for the entire length, thus negating any usefulness of rotator wire for multiband radials. Might as well just use single conductor wire in such

applications.

Those of you who are looking for a source of aluminum tubing for antennas ,at

reasonable prices, will do well to consider TEXAS TOWERS in Plano ,Tx. Their ad

is in QST and CQ(if i remember correctly). I recently ordered ten(10) 6' lengths

in 1/8th " increments, from 3/8th dia. up to 1-1/2" dia. to build another vertical and set aside a couple of pieces for a future project. I'm well pleased

with the tubing. With shipping, each piece averaged \$8.00. Can't complain about

that. Local hardware stores charge more, when they even carry any aluminum, and

its generally in 1", 7/8th", and 3/4" only.

For 20-30-40-80 and 160 meters, i'm going to build a 42 ft. high vertical(5/8th wave on 20m) and ground mount it over fifty(50) 50'

radials(aluminum electric fence wire). Don't know how many of you may have used

such an antenna, but i used one in the early 80's and it was a superb antenna. The exception to that may be 160 meters. At .08 wavelengths long, its bound to

be very inefficient, but better than nothing. But it should really shine at 40-30 and 20 meters.

As regards the ISOTRON antenna(s), i'm surprised that any ham would even consider using one of them .Its bound to be an air cooled dummy load. Theres a cardinal rule about antennas, shorten them and sacrifice efficiency. The ISOTRON is no exception.Its bound to be, if not the worst offender, certainly one of the worst offenders, as regards poor efficiency, of any antenna, ever made.

Those of you who operate or plan to operate 10 meters, mobile, might like to investigate obtaining a 55" antenna rod from Maxrad, and a 30-34(or 36) mhz. coil for use on your vehicle. The longer rod will resonate with that coil about 28 mhz. and the increased length of the rod will have a bit higher radiation resistance and efficiency. Thats the stuff which makes for better performance with QRP!

Merry Christmas to all of you. 73 Roy Lincoln WA4DOU

Get free e-mail and a permanent address at <http://www.netaddress.com/?N=1>

Date: Sat, 19 Dec 1998 16:07:39 -0500
From: Richard Arland <k7sz@epix.net>
To: HWRM1SS@aol.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [27621] Re: Atlanticon 99/Holiday Inn Reservations GOING FAST!!!
Message-ID: <367C159B.9E247D8@epix.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

How did you manage a \$69/nite rate????? Going rate when I called was \$89/nite!!!!!!

Rich K7SZ

HWRM1SS@aol.com wrote:

>
> Gentlemen,
>
> Made my reservations for Atlanticon 99 yesterday - I had to call four (4)
> times before I got a reservation clerk -- The rooms are going fast at the
> \$69/per night rate so make your plans and reservations SOON!
>
> K3HW
>

> P.S. -- Got My Fireball today also -- What a wonderful life !!

Date: Sat, 19 Dec 1998 17:41:26 -0500
From: hamjoel@juno.com
To: qrp-1@lehigh.edu
Subject: [27622] rope/wire ant & sstv
Message-ID: <19981219.174127.-256183.0.hamjoel@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

High gang

well the w8jk ant up about 35 ft kept me in sstv qso for over two hours today on twenty meters....

After putting the radio shack filter on the data line to the computer monitor the qrp++ quietened down and the rf got off the mic line... been running the qrp++ at 5 watts and that pwr level seems to be fine with sstv...

I even got to see some of my xmissions sent back to me... not bad... also got to send a pic to my friend back in my home town of new iberia, louisiana...

hey that's sstv, rtty new modes for me lately... new colours of the ham rainbow... for me... and now that sneaux is on the ground I needed to put up another antenna...

my cajun mama is proud of her cajun son tonite.... shrimp etouffe' tonite....
oh, I love my cajun mama....

You don't need to buy Internet access to use free Internet e-mail.
Get completely free e-mail from Juno at <http://www.juno.com/getjuno.html>
or call Juno at (800) 654-JUNO [654-5866]

Date: Sat, 19 Dec 1998 14:57:31 -0800
From: "Roger A. McCarty" <rmccarty@earthlink.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>, "Glowbugs@Piobaire. Mines. Uidaho. Edu" <glowbugs@piobaire.mines.uidaho.edu>
Subject: [27623] Reduction Drives; Last Day
Message-ID: <001001be2ba2\$f555f4a0\$b005b2d1@rmccarty.earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Content-Transfer-Encoding: 7bit

Someone aksed me when the cutoff is on these drives. Well, the numbers grew faster than I realized. We are up to 70 units now so today is the last day. I need to pull the plug at 0800 UTC 12/20/98 or midnight Pacific Time this evening. I will contact each of you individually to re-affirm your order.

Thanks to everyone

Roger A. McCarty ARS KD6CC
<http://www.qsl.net/kd6cc>

Caution! The 2nd Law of Thermodynamics is at work on all things at all times.

Mankind and Human nature are not exempt from entropy. The only solution is to decide on a higher standard, and commit yourself to it.

Date: Sat, 19 Dec 1998 18:01:55 -0500
From: "Kevin F. Glynn" <kfglynn@prodigy.net>
To: <aa5tb@swbell.net>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [27624] Re: MFJ 9406/Audio Quality
Message-ID: <199812192303.SAA235414@virtualmaster3-int.prodigy.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hey gang,

I agree with Steve AA5TB regarding audio quality with his MFJ-9406 and that some KW stations being annoyed when they found out what operating conditions were.

I've worked a lot of DX on 20M with my MFJ-9420 and all over US with my MFJ-9440, mostly portable with a 40M inverted-vee antenna. I remember in Sept 97 we were at a LIQRP meeting in Sunken Meadow Park and an S52 station couldn't believe I was using QRP output with a 40M dipole up about 45 feet powered by a battery! He asked me to repeat it, and I remember telling the guys I'd break the pileup on the first call, and did. Luck was with me, but the rig sure helped. Great rigs, underrated, too. They were my workhorses during the Nov ARRL SSB SS. I turned down ALC to ensure 5 watts PEP.

72 Kevin N2TO
Brooklyn, NYC

kfglynn@prodigy.net

Date: Sat, 19 Dec 1998 15:23:33 -0800 (PST)
From: Ron Stark <ku7y@dri.edu>
To: QRP-L <qrp-l@Lehigh.EDU>
Subject: [27625] Not QRP
Message-ID: <Pine.SOL.3.96.981219152152.20475A-1000000@vortex>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi All,

Does anyone have a "program" that will let me look up
call signs via the internet and print mailing labels?

Thanks,

73, Ron, SOWP 5545M,

.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....
....ku7y@sage.dri.edu.....Washoe Lake, Nevada....
....QRP-L #17...ARS #49...NorCal #330.....NRA LIFE.....

Date: Sat, 19 Dec 1998 18:41:15 -0500
From: Fran Flynn <fflynn@together.net>
To: Donald E Sanders <w4bws@juno.com>, qrp-l@lehigh.edu
Subject: [27626] Re: TS520
Message-ID: <367C399B.9AA300F5@together.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Donald E Sanders wrote:

>
> Fran, you measure power out using a "good" meter or you
> use an RF ammeter and a 50 ohm load on the output of
> your "not so good meter" and calibrate the low power scale.
> Oh all right, I cheat and sometimes use a scope across the
> 50 ohm load to measure the voltage and then convert to power
> to calibrate the meter.

Why is using a scope a cheat? It seems like an accurate measurement to

me
as long as the scope has adequate bandwidth.

> I also have made several low power watt meters by using a
> voltage divider across the 50 ohm load and 1n4148 diodes
> from the tap to the meter with a variable series pot to set the
> calibration with a capacitor across the meter. Simple and
> inexpensive.

That's a very simple and straightforward solution and one of
these days I'll get the time to build one. Thanks for the
suggestion.

Just a thought, isn't the linearity a bit off
at the lower end of the scale due to forward voltage drop
of the diodes? How do you compensate for that, or is it
negligible enough to not consider it?

Thanks a lot, enjoy your holidays

Fran

km1z

End of QRP-L Digest 1310
